APPENDIX I

REFERENCES

GENERAL

ARMY, CORPS OF ENGINEERS PUBLICATIONS

Civil Works

1. Technical Letter 63-16 4 Dec 1963. Foundation Pumping Tests.

Engineer Manuals

2. EM 385-1-1, 1 Mar 1967.

General Safety Requirements.

3. EM 1110-2-1906, 10 May 1965.

Laboratory Soils Testing.

4. EM 1110-2-3501, Apr 1949. EM 1110-2-3502, Apr 1948. EM 1110-2-3503, 19 Aug 1963. Foundation Grouting; Planning.
Foundation Grouting; Equipment.
Foundation Grouting; Field
Technique and Inspection.

5. EM 1110-2- (in preparation).

Soil Sampling Manual.

Engineer Regulations

6. ER 1110-1-5, 21 Mar .1968.

Plant Pest Quarantined Areas.

Guide Specifications

7. CE-1305.01, Oct. 1959 Amendment 2, Ott 1964.

Foundation Drilling and Grouting.

Reports

8. District, Omaha.

Report of Investigation of Chemical Grouts for Rock Bonding;

Report 1, July 1963.

Evaluation of the Effectiveness of Epoxy Resin and Polyester Resin to Strengthen Fractured Granite at Norad C.O.C.

Report 2, Mar 1964.

Injection of Epoxy Resin to Strengthen Fractured Granite at Norad C.O.C.

9. Waterways Experiment Station, Vicksburg, Miss., Aug 1949 (with quarterly supplements). Handbook for Concrete and Cement.

10. Waterways Experiment Station, Vicksburg, Miss., Technical Memorandum No. 3-408, June 1955. Grouting of Foundation Sands and Gravels, by R. V. Lord, Jr.

Technical Manuals

11. TM 5-530/AFM 88-51, 24 Feb 1966. Materials Testing.

12. TM 5-818-5/AFM 88-5, Chap. 6 (in preparation). Dewatering and Groundwater Control for Deep Excavations.

- U. S. DEPARTMENT OF DEFENSE
- 13. MIL-STD-619B, 6 Nov 1967.

Unified Soil Classification System for Roads, Airfields, Embankments, and Foundations.

U. S. DEPARTMENT OF THE INTERIOR PUBLICATIONS

14. Bureau of Reclamation, Denver, Colo., Technical Memorandum No. 646 July 1953 (revised June 1957) pp 13, 14, and 17.

Pressure Grouting.

- 15. American Society for Testing and Materials, 'Specification for Portland Cement, "ASTM Specification C 150-68, 1968, Philadelphia, Pa.
- 16. Burwell, E. B., "Cement and Clay Grouting of Foundations: Practice of the Corps of Engineer s," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 84, No. SM1, Paper 1551, Feb 1958.

- 17. Elston, J. P., "Cement and Clay Grouting of Foundations: Suggested Specifications for Pressure Grouting, " ASCE, Soil Mechanics and Foundations Division, Journal, Vol 84, No. SM1, Paper 1548, Feb 1958.
- 18. King, J. C. and Bush, E. G. W., "Symposium on Grouting: Grouting of Granular Materials," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 87, No. SM2, Paper 2791, Apr 1961, Part I, pp 1-32.
- 19. Leonard, G. K. and Grant, L. F., "Cement and Clay Grouting of Foundations: Experience of TVA with Clay- Cement and Related Grouts,"

 ASCE, Soil Mechanics and Foundations Division, Journal, Vol 84,

 No. SM1, Paper 1552, Feb 1958.
- 20. Lippold, F. H., "Cement and Clay Grouting of Foundations: Pressure Grouting with Packer s," <u>ASCE</u>, <u>Soil Mechanics and Foundations Division</u>, <u>Journal</u>, Vol 84, No. SM1, Paper 1549, Feb 1958.
- 21. Mayers, A., "Modern Grouting Techniques, " Grouts and Drilling Muds in Engineering Practice, Butterworths, London, 1963, pp 7-9.
- 22. Simonds, A. W., "Cement and Clay Grouting of Foundations: Present Status of Pressure Grouting Foundations," <u>ASCE, Soil Mechanics and Foundations Division, Journal, Vol 84, No. SM1, Paper 1544, Feb 1958.</u>
- 23. Sowers, G. F. and Sally, H. L., <u>Earth and Rockfill Dam Engineering</u> University of Roorkee, Asia Publishing House, India, 1962.

CEMENT-GROUT

ARMY, CORPS OF ENGINEERS PUBLICATIONS

24. Waterways Experiment Station, Vicksburg, Miss., Technical Grout Mixtures, by R. A. Bendinelli. Report No. 6-607, Aug 1962.

- 25. "Bibliography on Cement Grouting; Second Progress Report, Committee on Grouting," <u>ASCE, Soil Mechanics and Foundations Division, Journal</u>, Vol 89, No. SM4, Paper 3575, July 1963, pp 45-89.
- 26. Clark, B. E., 'Symposium on Grouting: Grouting at Fort Campbell Theatre Building, ASCE, Soil Mechanics and Foundations Division, Journal, Vol 87, No. SM2, Paper 2792, Apr 1961, Part 1, pp 33-42.

- 27. Kennedy, T. B., "Pressure Grouting Fine Fissures," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 84, No. SM3, Paper 1731, Aug 1958.
- 28. "Symposium on Grouting: Research in Foundation Grouting with Cement," ASCE, Soil Mechanics and Foundations Division,

 Journal, Vol 87, No. SM2, Paper 2794, Apr 1961, Part I, pp 55-82.
- 29. Klein, A. and Polivka, M., "Cement and Clay Grouting of Foundations: The Use of Admixtures in Cement Grouts," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 84, No. SM1, Paper 1547, Feb 1958.
- 30. Polatty, J. M., "Symposium on Grouting: Investigation of Sand-Cement Grouts," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 87, No. SM2, Paper 2795, Apr 1964, Part I, pp 83-93.
- 31. Swiger, W. F., "Symposium on Grouting: Construction of Rocky Reach Grouted Cutoff," ASCE, Soil Mechanics-and Foundations Division,

 Journal, Vol 87, No. SM2, Paper 2796, Apr 1961, Part I, pp 95-123.

CLAY GROUT

- 32. Grant, L. F. and Schmidt, L. A., Jr., 'Grouting Deep Solution Channels Under an Earth Fill Dam," <u>ASCE, Soil Mechanics and Foundations Division</u>, Journal, Vol 84, No. SM4, Paper 1813, Ott 1958.
- 33. Greenwood, D. A. and Raffle, J. R., "Formulation and Application of Grouts Containing Clay, " Grouts and Drilling Muds in Engineering Practice, Butterworths. London, 1963, pp 127-130.
- 34. Johnson, S. J., "Cement and Clay Grouting of Foundations: Grouting with Clay-Cement Grouts," <u>ASCE</u>, <u>Soil Mechanics and Foundations</u> <u>Division</u>, <u>Journal</u>, Vol 84, No. SM1, Paper 1545, Feb 1958.
- 35. Kravetz, G. A., "Cement and Clay Grouting of Foundations: The Use of Clay in Pressure Grouting," <u>ASCE</u>, <u>Soil Mechanics and Foundations</u> <u>Division</u>, <u>Journal</u>, Vol 84, No. SM1, Paper 1546, Feb 1958.
- 36. Leonard, M. W. and Dempsey, J. A., "Clays for Clay Grouting," Grouts and Drilling Muds in Engineering Practice, Butterworths, London, 1963, pp 119-126.
- 37. Magnet Cove Barium Corp., "Mud Engineering, " Houston, Tex.

- 38. Mayer, A., "Cement and Clay Grouting of Foundations: French Grouting Practice," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 84, No. SM1, Paper 1550, Feb 1958.
- 39. Skempton, A. W. and Cattin, P., "A Full-Scale Alluvial Grouting, Test at the Site of Mangla Dam," Grouts and Drilling Muds in Engineering Practice, Butterworths, London, 1963, pp 131-135.

CHEMICAL GROUT

- 40. American Cyanamid Co., "AM-9 Chemical Grout," Technical Data, Apr 1960, Wayne, N. J.
- 41. Caron, C., "The Development of Grouts for the Injection of Fine Sands,"

 Grouts and Drilling Muds in Engineering Practice, Butterworths,

 London, 1963, pp 136-141.
- 42. Caron, C., Delisle, J. P., and Godden, W. H., "Resin Grouting with Special Reference to the Treatment of the Silty Fine Sand of the Woolwich and Reading Beds at the New Blackwall Tunnel," Grouts and Drilling Muds in Engineering Practice, Butterworths, London, 1963, pp 142-145.
- 43. "Chemical Grouting; Progress Report of the Task Committee on Chemical Grouting," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 83, No. SM4, Paper 1426, Nov 1957.
- 44. Diamond Alkali Co., "SIROC Grout Technical Manual," Cleveland, Ohio.
- 45. Fern, K. A., "The Application of Polymerization Techniques to the Solution of Grouting Problems," Grouts and Drilling Muds in Engineering Practice, Butterworths, London, 1963, pp 146-149.
- 46. Gnaedinger, J. P., "Symposium on Grouting: Grouting to Prevent Vibration of Machinery," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 87, No. SM2, Paper 2793, Apr 1961, Part I, pp 43-54.
- 47. Halliburton Co., "Grouting Services," Technical Data Sheets, Duncan, Ill.
- 48. Karol, R. H. and Swift, A. M., "Symposium on Grouting: Grouting in Flowing Water and Stratified Deposits," ASCE, Soil Mechanics and

- Foundations Division, Journal, Vol 87, No. SM2, Paper 2797, Apr 1961, Part I, pp 125-145.
- 49. Leonard, M. W. and Moller, K., "Grouting for Support, with Particular Reference to the Use of Some Chemical Grouts," Grouts and Drilling Muds in Engineering Practice, Butterworths, London, 1963, pp 156-163.
- 50. Neelands, R. J. and James, A. N., "Formulation and Selection of Chemical Grouts, with Typical Examples of Their Field Use," Grouts and Drilling Muds in Engineering Practice, Butterworths, London, 1963, pp 150-155.
- 51. Polivka, M., Witte, L. P., and Gnaedinger, J. P., "Field Experience with Chemical Grouting," ASCE, Soil Mechanics and Foundations Division, Journal, Vol 83, No. SM2, Paper 1204, Apr 1957.
- 52. Riedel, C. M., "Chemical Soil Solidification Work in Construction and Emergencies," Proceedings, Conference on Soil Stabilization, MIT, June 1952.
- 53. Spencer, Rodio and Soletanche, Inc., "Injections," New York.

ASPHALT GROUT

- 54. Asphalt Institute, "Asphalt in Hydraulic Structures," Manual Series No. 12, Nov 1961, College Park, Md.
- 55. , "Specifications for Undersealing Portland Cement Concrete Pavements with Asphalt," Specifications Series No. 6 (SS-6), 1st ed., Dec 1966, College Park, Md.
- 56. Christians, G. W., "Asphalt Grouting for Waterproofing and for Stopping Leakage," Water Works, June 1928.
- 57. Ross, F. K., "Asphalt Grouting Used to Plug Cavities in Leaky Dam,"

 <u>Pacific Builder and Engineer</u>, Vol 67, Sept 1961, pp 96 and 97.